



Date: July 26, 19 82

Operator's Well No. Lowther-1

API Well No. 47 073 1524
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /
(If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)

LOCATION: Elevation: 737' Watershed: Henry Camp
District: Jefferson County: Pleasants Quadrangle: Schultz

WELL OPERATOR Energex Oil & Gas Corp. DESIGNATED AGENT Walter H. Allen
Address P. O. Box 5306 Address P. O. Box 5306
Vienna, WV 26105 Vienna, WV 26105

OIL & GAS ROYALTY OWNER Glen Lowther, et al
Address Rt. #1
St. Marys, WV

Acreage _____
SURFACE OWNER Glen Lowther, et al
Address Rt. #1
St. Marys, WV
Acreage _____

FIELD SALE (IF MADE) TO:
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Lowther
Address General Delivery
Middlebourne, WV 26140 304-758-4764

COAL OPERATOR _____
Address _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease X other contract _____ / dated Dec. 1, 19 81, to the undersigned well operator from Don Rogers, Et al

(If said deed, lease, or other contract has been recorded:)
Recorded on _____, 19_____, in the office of the Clerk of the County Commission of Pleasants County, West Va., in Deed Book 169 at page 642. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____
—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

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OIL & GAS DIVISION
DEPT. OF MINES

BLANKET BOND

Energex Oil & Gas Corp.
Well Operator
By Carroll R. Boice
Its Agent

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Paul Drilling Corp.

Address P. O. Box 1841

Parkersburg, WV 26101

GEOLOGICAL TARGET FORMATION, Marcellus Shale

Estimated depth of completed well, 4000 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 100 feet; salt, 200 feet.

Approximate coal seam depths: NONE Is coal being mined in the area? Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	10 3/8	ST-C	24		X	200	200	to surf.	Kinds
Fresh Water	8 5/8	ST-C	24	X		900	(900 if needed)	fill-up 200'	
Coal									Sizes
Intermediate									
Production	4 1/2	ST-C	9 3/8	X			4000	fill-up above 2nd cow run	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling **. THIS PERMIT SHALL EXPIRE**
IF OPERATIONS HAVE NOT COMMENCED BY 5-14-83
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____
Its _____

BRACKET BOOK



DATE April 5, 1982

WELL NO. Lowther #1

API NO. 47 - 075 1524

State of West Virginia

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Energex Oil & Gas Corp.

DESIGNATED AGENT Walter H. Allen

Address P. O. Box 5306, Vienna, WV 26105

Address P.O. Box 5306, Vienna, W

Telephone (304) 295-8501

Telephone (304) 295-8501

LANDOWNER Glen Lowther

SOIL CONS. DISTRICT Upper Ohio

Revegetation to be carried out by Energex Oil and Gas Corporation (Age

_____)

This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan: 4/7/82

(Date)

Kenneth R. Mason
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert 12" min. (A)

Structure _____

Spacing If Necessary

Material _____

Page Ref. Manual 2-7

Page Ref. Manual _____

Structure Stone (B)

Structure _____

Spacing If Necessary

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure _____ (C)

Structure _____

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

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OIL & GAS DIVISION
DEPT. OF MINES

SKETCH

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment-Area II...

Lime _____ Tons/acre
or correct to pH 6.5

Lime _____ Tons/acr
or correct to pH _____

Fertilizer 500 lbs./acre
(10-20-20 or equivalent)

Fertilizer _____ lbs/acre
(10-20-20 or equivalent)

Mulch Hay or Straw 2 Tons/acre

Mulch _____ Tons/acre

Seed* Ky #31 Fescue 40 lbs/acre

Seed* _____ lbs/acre

Redtop 8 lbs/acre

_____ lbs/acre

_____ lbs/acre

_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Danell R. Boice

ADDRESS P. O. Box 5306

Vienna, WV 26105

PHONE NO. (304) 295-8501

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as supplementary for comments.

OIL AND GAS LEASE

AGREEMENT, made and entered into this 15th day of December A. D. 19 81

by and between
(1/3 interest - 26 acres) Glen K. Lawther and Sophia L. Lawther
(1/3 interest - 14 acres) Donald D. Rogers and Wilma J. Rogers

of _____ party of the first part, hereinafter called Lessor (whether one or more),
 and Energex Oil & Gas Corp., Box 5306, Vienna, WV 26105 party of the second part, hereinafter called Lessee;

1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents and of storing gas of any kind in any formation underlying the land, and also the right to enter thereon at all times for the purpose of drilling and operating for oil, gas and water, laying pipe lines, erecting tanks, machinery, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey

the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in Jefferson Township, District, County of Pleasants, State of West Virginia, and described as follows, to-wit: Bounded on the

NORTH by lands of Washington District
 EAST by lands of Ralph Masten
 SOUTH by lands of James E. Chambers
 WEST by lands of Grant District
 Containing (40) forty acres, more or less and being the same land conveyed to lessor by D. A. Ingram by deed dated August 1948 and recorded in said county records in Pleasants Book No. 89 Page 87

2. It is agreed that this lease shall remain in force for a primary term of (1) one year from this date and as long thereafter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, or any formation underlying the herein leased land is used for storage of gas as provided under paragraph 7 hereof.

3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (1/8) part of all oil produced and saved from the leased premises, and shall pay Lessor one-eighth (1/8) of all proceeds

for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Fifty Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof.

4. The Lessee shall commence operations for a well on the premises on or before June 1st, 1982, unless Lessee pays thereafter a rental of \$132.00 for each six months that operations are delayed from the time above mentioned. The consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted.

5. All moneys coming due hereunder shall be paid or tendered to Glen K. Lawther \$5,80 Donald D. Rogers \$6.7 direct, or by check payable to his (or her) order mailed to Box 26, Rt. 1, St. Marys, WV Box , Rt. 1, St. Marys, WV and no default shall be declared against the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default.

6. Lessor reserves ~~2500~~ cubic feet of gas per annum for domestic use, to be taken through his own appliances at any producing gas well, and agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessor further covenants and agrees that his taking and use of gas shall be wholly at his own risk, the Lessee not to be held liable for any accident or damage caused thereby, nor shall Lessee be liable for any shortage or failure in the supply of gas for said domestic use.

7. ~~Lessee shall have the right to use any formation underlying the leased premises for the storage of gas and shall have all rights and rights-of-way necessary to store and produce such stored gas. As full payment for such storage rights, the Lessee shall pay to the Lessor a rental at the rate of _____ per acre per year, while the premises are so used, and so long as the storage payment is made, all provisions of this lease shall remain in full effect.~~

8. ~~Lessor further grants to the Lessee, his heirs and assigns, the right to unitize this lease with other leases to form a drilling unit or units according to the rules and regulations which may be adopted for the proper development and conservation of the field. In the event this lease is unitized, the Lessor agrees to accept, in lieu of the royalty herebefore recited, such proportion of the royalty above provided, as the acreage covered by this lease bears to the total acreage comprising the unit.~~

9. If said Lessor owns a less interest in the above described land than the undivided fee simple estate therein, then the royalties and rentals herein provided shall be paid the Lessor only in the proportion which his interest bears to the whole and undivided fee.

10. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from wells of Lessor. Lessee shall also have the right at any time to remove all or any part of the machinery, fixtures or structures placed on said premises, including the right to draw and remove casing. Lessee shall pay for damages caused by its operations to growing crops on said lands, and, when requested by Lessor, shall bury its pipe lines below plow depth.

11. The interest or estate of either party hereto may be assigned, the privilege of assigning in whole or in part being expressly allowed. In event this lease shall be assigned as to any part or parts of the above described land and the assignee or assignees of such part or parts shall fail or make default in the payment of the proportionate part of the rents due from him or them, such default shall not operate to defeat or affect this lease insofar as it covers a part or parts of said land upon which the said Lessee or any assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee and it has been furnished with a written transfer or assignment or a certified copy thereof.

12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancelation, after which all payments and liabilities hereunder thereafter shall cease and determine, and if the whole is surrendered, then this lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one Lessor, then to any one of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender thereof in person or by mail addressed to the post office address of such person, or by recording a duly executed surrender thereof in the Recorder's office of the County in which the land is located.

13. Lessor hereby warrants and agrees to defend the title to the land herein described and agrees that the Lessee at its option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands, and in event it exercises such option, it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens.

14. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as oil or gas is produced in paying quantities.

This instrument prepared by David Roberts

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SEP 13 1982

OIL & GAS DIVISION
DEPT. OF MINES

NOWSCO

TREATMENT REPORT
CEMENTING

DATE: 9-27-82

WELL SERVICE

SERVICE ORDER NO.: 001293

Permit # 1524

Customer's Name <u>Energex Oil-Gas Co.</u>	Well Name <u>Lowther #1</u>
Address <u>P.O. Box 5306</u> <u>Vienna W. Va 26105</u>	LSD _____ SEC. _____ TWP. _____ RGE. _____ W _____
	Contractor <u>General</u> Province <u>W Va</u>

TYPE OF JOB Surface Intermediate Production Liner Abandonment
 Multistage Plug Back Squeeze Pumping Other

WELL DATA

Hole: Size 10 7/8 INCH Total Depth 4981/8 FT. Mud Type _____ Viscosity _____ CP _____ Density _____ LBS./GAL.

Casing or Liner: Size 8 7/8 IN. Lin. Density 20 LBS./FT. Grade _____ Depth 4981/8 FT.
 Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.
 Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.

Type of Plugs:
 Top Size _____ IN.
 _____ Wooden _____ Rubber
 Btm. Size _____ IN.
 _____ Wooden _____ Rubber
 Type of Head:
 _____ Plug Loading Head
 Swage _____ Other

Drill Pipe or Tubing:
 Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.
 Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.
 Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.

Perforations: From _____ FT. To _____ FT. Pump Out Lines: Yes No Cement Mud Other _____
 From _____ FT. To _____ FT. Float Holding: Yes No Returns: Full Partial Nil
 From _____ FT. To _____ FT. Type of Packer or Special Tool _____ Depth _____ FT.

Time arrived on location 9-27-82 4:45 PM Time left location 9-27-82 10:30 PM

CEMENT DATA

	Amount CU. FT.	Cement Blend	Additives	Density LBS./GAL.	Yield, CU. FT./SK	Total Slurry Yield, CU. FT.
Fill	<u>110</u>	<u>N.P</u>	<u>3% MEL</u>	<u>15.6</u>	<u>1.18</u>	<u>129.8</u>
Tail-In						
Fill						
Tail-In						

CASING OR LINER DATA

PLUG BACK DATA

REMARKS	Time		Rate bbls/min	Pressure, Psi		Volume pumped bbls.	Plug #	Top FT.	Btm. FT.	Cement CU. FT.	Displacement BBLs.	Time Plug Down
	Start	Finish		Max.	Min.							
Break Circulation	8:47	8:51	4	200	200	15						
mix Cement	8:51	8:59	4	200	200	23.1						
Displace Cement	8:52	8:59	4	300	200	31.3						
Shut in Head		9:00		300								
Release line Psi	9:05			0								
Rig down												
Washup												
Leave Location	10:30											

CW Rouse

IV-35
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

Date December 28, 1982
Operator's Well No. Lowther No. 1
Farm Glen Lowther
API No. 47 -073 -1524

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 737' Watershed Henry Camp
District: Jefferson County Pleasants Quadrangle Schultz

COMPANY Energex Oil and Gas Corporation
ADDRESS 105 Alta St., Marietta, OH 45750
DESIGNATED AGENT Darrell Boice
ADDRESS P.O. Box 5306, Vienna, WV 26105
SURFACE OWNER Glen Lowther
ADDRESS Rt. #1, St. Marys, WV
MINERAL RIGHTS OWNER Glen Lowther, et al
ADDRESS Rt. #1, St. Marys, WV
OIL AND GAS INSPECTOR FOR THIS WORK Robert
Lowther ADDRESS Middlebourne, WV 26140
PERMIT ISSUED September 13, 1982
DRILLING COMMENCED October 1, 1982
DRILLING COMPLETED October 5, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON NOT APPLICABLE

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	200	200	to surf.
9 5/8			
8 5/8	900	900	fill-up 200'
7			
5 1/2			
4 1/2	3670'	3670'	fill up above 2nd Cor. Run
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 4000 feet
Depth of completed well 3536 feet Rotary X / Cable Tools
Water strata depth: Fresh 100 feet; Salt 200 feet
Coal seam depths: None Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 3216-3414 feet
Gas: Initial open flow 400 Mcf/d Oil: Initial open flow 25 Bbl/d
Final open flow 250 Mcf/d Oil: Final open flow 20 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 725 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated 3212' - 24' (7 Holes), 3290'-3312' (12 Holes), 3320'-30' (6 Holes), and 3416'-34' (15 Holes).

Lime Gray 1860 1900

Shale Fractured with 350 gallons of 15% HCL acid and 1200 Mcf nitrogen.

Salt Sand White 1920 1922

Shale Gray 1923 2125

Gordon Stray Gray 2126 2160

Shale Gray 2161 2275

Gordon Sand Gray 2276 2300

Shale Gray 2301 3536TD

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale	Gray		0	110	
Sand	Gray		111	140	
Shale-Sand	Gray		141	160	
Shale	Gray		161	375	
Lime	White		376	530	
Shale	Gray		531	605	
Shale	Black		606	620	
Rock	Red		621	710	
Shale	Gray		711	940	
Salt Sand	White		941	1120	
Shale	Gray		1121	1615	
Big Lime	Green		1616	1690	
Big Injun	Sand		1691	1740	
Shale	Gray		1741	1860	
Lime	Gray		1860	1900	
Shale	Brown		1901	1919	
Berea Sand	White		1920	1922	
Shale	Gray		1923	2125	
Gordon Stray	Gray		2126	2160	
Shale	Gray		2161	2275	
Gordon Sand	Gray		2276	2300	
Shale	Gray		2301	3536TD	

(Attach separate sheets as necessary)

ENERGEX OIL & GAS CORPORATION

Well Operator

By: Robert M. Coolidge, SECRETARY

Date: DEC. 28, 1982

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including..."

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED

OCT 4 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1524

Oil or Gas Well _____
(KIND)

Company Energex oil & Gas
 Address Vienna W. Va
 Farm Glen Lowther
 Well No. 1
 District Jefferson County Pleasant
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4	495	495	
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8 5/8 SIZE 495 No. FT. 927-82 Date
 NAME OF SERVICE COMPANY NOWSCO
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: _____

9-28-82
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

RECEIVED
JUN 26 1984

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 29, 1984

COMPANY Energex Oil & Gas Corporation

PERMIT NO 073-1524 (7-82)

105 Alta Street

FARM & WELL NO Glenn Lowther # 1

Marietta, Ohio 45750-0905

DIST. & COUNTY Jefferson/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	✓	
25.04	Prepared before Drilling to Prevent Waste	✓	
25.03	High-Pressure Drilling	✓	
16.01	Required Permits at Wellsite	✓	
15.03	Adequate Fresh Water Casing	✓	
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing	✓	
15.04	Adequate Cement Strength	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED

Robert A. Lowther

DATE

June 22, 1984

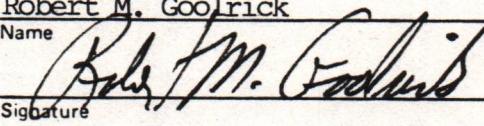
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. r. B. B.
Administrator-Oil & Gas Division

July 19, 1984

DATE

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-073-1524			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	- Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3434 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Energex Oil & Gas Corp. None Name Seller Code 105 Alta St. Street Marietta, OH 45750 City State Zip Code			
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Schultz Quadrangle Field Name Pleasants County, WV County State			
(b) For OCS wells:	N/A Area Name Block Number Date of Lease: _____ Mo. Day Yr. OCS Lease Number			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Lowther No. 1			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Not determined Name Buyer Code			
(b) Date of the contract:	N/A _____ Mo. Day Yr.			
(c) Estimated annual production:	75 MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	N/A	N/A	N/A	N/A
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.710	.234	.-	2.944
9.0 Person responsible for this application:	Robert M. Goolrick Secretary Name Title  Signature December 28, 1982 614-373-6644 Date Application is Completed Phone Number			

Agency Use Only
Date Received by Juris. Agency JAN 31 1983
Date Received by FERC

Uncommitted

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

88218 MA

DATE: APR 20 1983

BUYER-SELLER CODE

PARTICIPANTS:

WELL OPERATOR: Energex Oil & Gas Corp.

FIRST PURCHASER: Not determined

OTHER:

1500'

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
830103-103-073-1524
 Use Above File Number on all Communications
 Relating to Determination of this Well

~~Offered~~ ~~Self~~
 * 22-4-85 No BHP

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1. FERC -121 Items not completed - Line No. All 20 8.08

2. IV-1 Agent Darrell Boice

3. IV-2 Well Permit

4. IV-6 Well Plat

5. IV-35 Well Record Drilling Deepening

6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced? Ratio

7. IV-39 Annual Production years

8. IV-40 90 day Production Days off line:

9. IV-48 Application for certification. Complete?

10-17. IV Form 51 - 52 - 53 - 55 - 56 - 57 - 58 Complete? Affidavit Signed

18-28. Other: Survey Logs Geological Charts
 Structure Map 1: 4000 Map Well Tabulations
 Gas Analyses

(5) Date commenced: 10-1-82 Date completed 10-5-82 Deepened

(5) Production Depth: 3216-3414

(5) Production Formation: Devonian Shale

(5) Final Open Flow: 250 MCF

(5) After Frac. R. P. 725 #

(6) Other Gas Test: _____

(7) Avg. Daily Gas from Annual Production: _____

(8) Avg. Daily Gas from 90-day ending w/1-120 days _____

(8) Line Pressure: _____ PSIG from Daily Rep

(5) Oil Production: _____ From Completion Report _____

10-17. Does lease inventory indicate enhanced recovery being done No

10-17. Is affidavit signed? Notarized?

Does official well record with the Department confirm the submitted information? yes

Additional information _____ Does computer program confirm? _____

Was Determination Objected to _____ By Whom? _____

Date December 28, 1982

Operator's Well No. Lowther No. 1
API Well No. 47 - 073 - 1524
State County Permit
Previous File No. _____
(If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Energex Oil & Gas Corp.
ADDRESS 105 Alta St.
Marietta, OH 45750

DESIGNATED AGENT Darrell Boice
ADDRESS P. O. Box 5306
Vienna, WV 26105

Gas Purchase Contract No. None and Date N/A
(Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Not determined

(Street or P. O. Box)

(City) (State) (Zip Code)

FERC Seller Code None FERC Buyer Code -

TYPE OF DETERMINATION BEING SOUGHT.

- (1) Initial determination (See FERC Form 121.) Section of NGPA 103 Category Code -
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Robert M. Goolrick Secretary
Name (Print) Title
Robert M. Goolrick
Signature
105 Alta St.
Street or P. O. Box
Marietta, OH 45750
City State (Zip Code)
(614) 373-6644
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

A copy of this Application for Well classification, and other documents filed herewith, has been served upon the purchaser named above (if any) by first-class mail.

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request, for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978, (NGPA). for for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____.

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

JAN 3 1983

Date received by
Jurisdictional Agency

By _____
Title _____
Director

Uncommitted

Checklist of minimum Forms and Information needed to apply for each well class. Each is identified by an "Item No.". The "Items" required are listed beneath each well classification.

FOR NEW ONSHORE WELL - Sec. 102 NGPA - More than 2.5 miles from a marker well
Items - 1,2,3,4,5,6,9,10,22,23 - (18 & 19 Qualified)

FOR NEW ONSHORE WELL - Sec. 102 NGPA - More than 1,000 feet deeper than a marker well
Items - 1,2,3,4,5,6,9,11,22,23 - (18 & 19 Qualified)

FOR NEW ONSHORE RESERVOIR WELL - Sec. 102 NGPA
Items - 1,2,3,4,5,6,9,11,22,23 - (18 & 19 Qualified)

FOR NEW ONSHORE PRODUCTION WELL - Sec. 103 NGPA
Items - 1,2,3,4,5,6,9,13

FOR HIGH COST GAS - Sec. 107 NGPA
Items - 1,2,3,4,5,6,9,14,19 - (18 Qualified)

FOR STRIPPER WELLS - Sec. 108 NGPA
Items - 1,2,3,4,5,6,7,8,9,15 (25 if Available)

FOR STRIPPER WELLS - Sec. 108 NGPA - Enhanced Recovery
Items - 9,16

FOR STRIPPER WELLS - Sec. 108 NGPA - Seasonally Affected
Items - 9,17,28

ITEM NOS.	FORM NO.	DESCRIPTION
1.	FERC 121	
2.	IV-1	Operator Agent Certification
3.	IV-2	Well Permit Application
4.	IV-6	Well Plat
5.	IV-35	Well Operator's Drilling Report
6.	IV-36	Gas/Oil Ratio Test Report
7.	IV-39	Report of Annual Production
8.	IV-40	Ninety (90) Day Production Report
9.	IV-48WC	State Application for Well Classification
10.	IV-51WC	Wells drilled more than 2.5 miles from a marker well
11.	IV-52WC	Wells drilled more than 1,000 ft. deeper than a marker well
12.	IV-53WC	New Onshore Reservoir Well
13.	IV-54WC	New Onshore Production Well
14.	IV-55WC	High Cost Natural Gas Well
15.	IV-56WC	Stripper Well Classification
16.	IV-57WC	Stripper - Increased Production by Enhanced Recovery
17.	IV-58WC	Stripper - Seasonally Affected
18.	N/A	Directional Survey
19.	N/A	Electric Logs
20.	N/A	Subsurface cross-section charts (Geological charts)
21.	N/A	Formation Structure Map
22.	N/A	1:4000 Well Location Map
23.	N/A	Well Tabulation Sheet
24.	N/A	Gas Analysis
25.	N/A	Other
26.	N/A	Notice - Increase of Production
27.	N/A	Lease Inventory
28.	N/A	Tax records or verified copies of billing statements for appropriate period

88018 MAL

Date December 28, 1982

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. Lowther No. 1

API Well No. 47 - 073 1524
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT Darrell Boice

ADDRESS P. O. Box 5306
Vienna, WV 26105

WELL OPERATOR Energex Oil & Gas Corp.
ADDRESS 105 Alta St.
Marietta, OH 45750

LOCATION: Elevation 737'
Watershed Henry Camp
Dist. Jefferson County Pleasants Quad. Schultz

GAS PURCHASER _____
ADDRESS _____

Gas Purchase Contract No. N/A
Meter Chart Code N/A
Date of Contract N/A

* * * * *

Date surface drilling was begun: October 1, 1982

Indicate the bottom hole pressure of the well and explain how this was calculated:

690 psi (24-hour test)

$$BHP = P_1 + P_i (e^{GL/53.34T} - 1)$$

AFFIDAVIT

I, Robert M. Goolrick, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

STATE OF WEST VIRGINIA,
COUNTY OF Wood, TO WIT:

I, Pamela Hubbard, a Notary Public in and for the state and county aforesaid, do certify that Robert M. Goolrick, whose name is signed to the writing above, bearing date the 28th day of December, 19 82, has acknowledged the same before me, in my county aforesaid
Given under my hand and official seal this 28th day of December, 19 82.
My term of office expires on the 2nd day of December, 19 84.

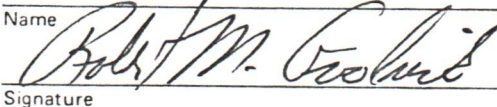
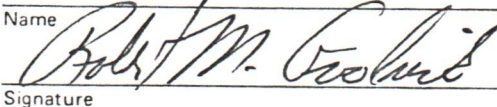
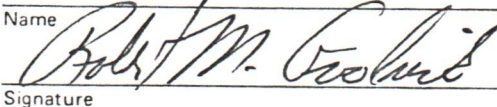
[NOTARIAL SEAL]

RECEIVED

JAN 3 1983

FERC-121

OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	7-073-1524												
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA												
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3434 feet												
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<table style="width:100%; border: none;"> <tr> <td style="width:70%; border: none;">Energex Oil & Gas Corp.</td> <td style="width:30%; border: none;">None</td> </tr> <tr> <td style="border: none;">Name 105 Alta St.</td> <td style="border: none;">Seller Code</td> </tr> <tr> <td style="border: none;">Street Marietta, OH</td> <td style="border: none;">45750</td> </tr> <tr> <td style="border: none;">City</td> <td style="border: none;">State Zip Code</td> </tr> </table>	Energex Oil & Gas Corp.	None	Name 105 Alta St.	Seller Code	Street Marietta, OH	45750	City	State Zip Code				
Energex Oil & Gas Corp.	None												
Name 105 Alta St.	Seller Code												
Street Marietta, OH	45750												
City	State Zip Code												
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<table style="width:100%; border: none;"> <tr> <td style="width:70%; border: none;">Schultz Quadrangle</td> <td style="width:30%; border: none;"></td> </tr> <tr> <td style="border: none;">Field Name</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Pleasants County</td> <td style="border: none;">WV</td> </tr> <tr> <td style="border: none;">County</td> <td style="border: none;">State</td> </tr> </table>	Schultz Quadrangle		Field Name		Pleasants County	WV	County	State				
Schultz Quadrangle													
Field Name													
Pleasants County	WV												
County	State												
(b) For OCS wells:	<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">N/A</td> <td style="width:50%; border: none;"></td> </tr> <tr> <td style="border: none;">Area Name</td> <td style="border: none;">Block Number</td> </tr> <tr> <td colspan="2" style="border: none; text-align: center;">Date of Lease:</td> </tr> <tr> <td style="border: none;">Mo. Day Yr.</td> <td style="border: none;">OCS Lease Number</td> </tr> </table>	N/A		Area Name	Block Number	Date of Lease:		Mo. Day Yr.	OCS Lease Number				
N/A													
Area Name	Block Number												
Date of Lease:													
Mo. Day Yr.	OCS Lease Number												
(c) Name and identification number of this well: (35 letters and digits maximum.)	Lowther No. 1												
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A												
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Not Determined												
(b) Date of the contract:	N/A												
(c) Estimated annual production:	75 MMcf.												
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	N/A	N/A	N/A	N/A				
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
N/A	N/A	N/A	N/A										
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: center;">5 420</td> <td style="text-align: center;">4 6 7</td> <td style="text-align: center;">-</td> <td style="text-align: center;">5 8 8 7</td> </tr> </tbody> </table>	5 420	4 6 7	-	5 8 8 7								
5 420	4 6 7	-	5 8 8 7										
9.0 Person responsible for this application:	<table style="width:100%; border: none;"> <tr> <td style="width:60%; border: none;">Robert M. Goolrick</td> <td style="width:40%; border: none;">Secretary</td> </tr> <tr> <td style="border: none;">Name</td> <td style="border: none;">Title</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Signature</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">December 28, 1982</td> <td style="border: none;">614--373-6644</td> </tr> <tr> <td style="border: none;">Date Application is Completed</td> <td style="border: none;">Phone Number</td> </tr> </table>	Robert M. Goolrick	Secretary	Name	Title			Signature		December 28, 1982	614--373-6644	Date Application is Completed	Phone Number
Robert M. Goolrick	Secretary												
Name	Title												
													
Signature													
December 28, 1982	614--373-6644												
Date Application is Completed	Phone Number												

Agency Use Only
Date Received by Jurisdiction Agency JAN 3 1983
Date Received by FERC

PARTICIPANTS:

DATE: APR 20 1983

BUYER-SELLER COI

WELL OPERATOR: Energex Oil & Gas Corp.

FIRST PURCHASER: Not determined

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
830103-107-073-1524
 Use Above File Number on all Communications
 Relating to Determination of this Well

~~DEFERRED~~
~~Worksheet~~
QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- ITEM NO.
1. FERC -121 Items not completed - Line No. ALL BY 7.0 8.08
 2. IV-1 Agent Darrell Boice
 3. IV-2 Well Permit
 4. IV-6 Well Plat
 5. IV-35 Well Record Drilling Deepening
 6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced? Ratio
 7. IV-39 Annual Production _____ years
 8. IV-40 90 day Production _____ Days off line: _____
 9. IV-48 Application for certification. Complete?
 - 0-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete? Affidavit Signed
 - 8-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
 - (5) Date commenced: 10-1-82 Date completed 10-5-82 Deepened
 - (5) Production Depth: 3216-3414
 - (5) Production Formation: Devonian Shale
 - (5) Final Open Flow: 250 MCF
 - (5) After Frac. R. P. 725 #
 - (6) Other Gas Test: _____
 - (7) Avg. Daily Gas from Annual Production: _____
 - (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
 - (8) Line Pressure: _____ PSIG from Daily _____
 - (5) Oil Production: _____ From Completion Report _____
 17. Does lease inventory indicate enhanced recovery being done No
 17. Is affidavit signed? Notarized?
 - Does official well record with the Department confirm the submitted information? yes
 - Additional information _____ Does computer program confirm? _____
 - Determination Objected to _____ By Whom? _____

Date December 28, 1982

Operator's Well No. Lowther No. 1

API Well No. 47 - 073 - 1524
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. _____
(If Applicable)

WELL OPERATOR Energex Oil & Gas Corp.
ADDRESS 105 Alta St.

DESIGNATED AGENT Darrell Boice
ADDRESS P. O. Box 5306

Marietta, OH 45750

Vienna, WV 26105

Gas Purchase Contract No. None and Date N/A
(Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Not determined

(Street or P. O. Box)
(City) (State) (Zip Code)

FERC Seller Code None

FERC Buyer Code -

TYPE OF DETERMINATION BEING SOUGHT

- (1) Initial determination (See FERC Form 121.) Section of NGPA 107
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

3
Devonian Shale
Category Code

Robert M. Goolrick Secretary
Name (Print) Title

Robert M. Goolrick
Signature
105 Alta St.
Street or P. O. Box
Marietta, OH 45750
City State (Zip Code)
614 373-6644
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

A copy of this Application for Well classification, and other documents filed herewith, has been served upon the purchaser named above (if any) by first-class mail.

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978, (NGPA). or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____.

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

JAN 3 1983

Date received by
Jurisdictional Agency

Director
By [Signature]
Title

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date December 28 1982

Well No. Lowther No. 1

API Well No. 073 - 1524
State West Virginia County Jefferson

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE

MGPA Section 107

DESIGNATED AGENT Darrell Boice

ADDRESS P. O. Box 5306
Vienna, WV 26105

WELL OPERATOR Energex Oil & Gas Corp.

ADDRESS 105 Alta St.
Marietta, OH 45750

GAS PURCHASER Not determined

ADDRESS _____

LOCATION: Elevation 737'

Watershed Henry Camp

Dist Jefferson County Pleasants Loc. Schultz

Gas Purchase Contract No. N/A

Meter Chart Code N/A

Date of Contract N/A

* * * * *

Date surface drilling began: October 1, 1982

Indicate the bottom hole pressure of the well and explain how this was calculated.

690 psi (24-hour test)

AFFIDAVIT

I, Gene Huck, having been first sworn according to law, state that, I have calculated the percentage of footage of the producing interval which is not Devonian shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described subparagraph (3)(1) or (3)(1)(A) has been filed, or as indicated by the report described in subparagraph (3)(1)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

Gene Huck

STATE OF WEST VIRGINIA.

COUNTY OF Wood, TO WIT

I, Pamela Hubbard, a Notary Public in and for the state and county aforesaid, do certify that Gene Huck, whose name is signed to the writing above, bearing date the 28th day of December, 1982, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 28th day of December, 1982.

My term of office expires on the 2nd day of December, 1984.

Pamela Hubbard
Notary Public

[NOTARIAL SEAL]

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Energex Oil & Gas Corp. Agent: Sharon A. Barker
 Type Determination being sought - 107 (Devonian Shale)
 API Well No.: 47-073-1524 Well Name: Lowther #1
 West Virginia Office of Oil and Gas County: Pleasants
 References: SJA File No.

Vol. Page Line

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 130 * API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 130 * API Units
2. Calculation: $0.7 \text{ (GR Value at Base Line)}$
 $0.7 \text{ (} \underline{130} \text{ *)} = \underline{91}$ API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
1924'	2300'	376'	19'
2300'	2800'	500'	11'
2800'	3300'	500'	0'
3300'	3703'	403'	3'

Total Devonian Interval 1776'

Total Less Than 0.7 (Shale Base) 34

Less Than 0.7 (Shale Base Line) = $\underline{.019} \times 100 = \underline{1.9} \%$

*Marked on log included with analysis.
 **Top of Devonian Section Recorded on First Interval in this Column.
 ***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

111. J. 9/12/82

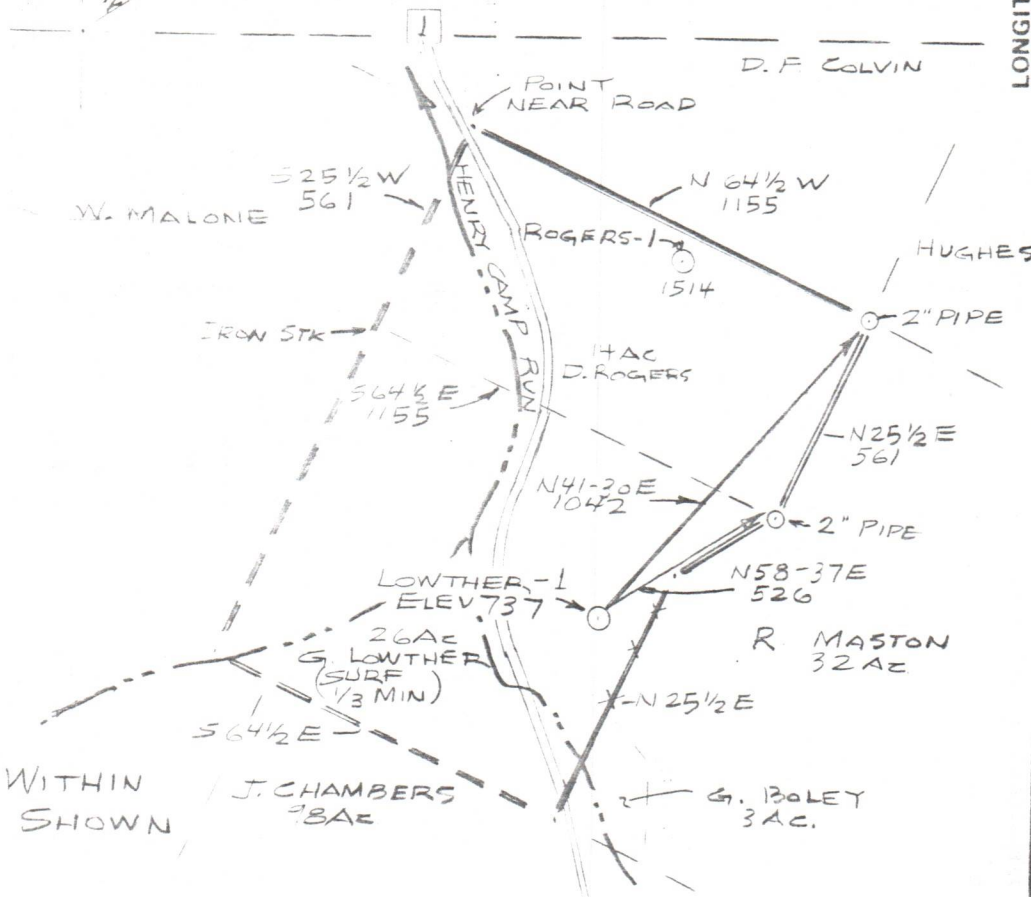
10,025

LATITUDE 39-22-30

LONGITUDE 81-12-30

NORTH

1514
2000'



NOTE - ALL WELLS WITHIN 2000' RADIUS SHOWN

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION 603 BM
 USGS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Daniel R. Boice
 R.P.E. _____ L.L.S. 667

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE APR. 7, 1982
 OPERATOR'S WELL NO. LOWTHER-1
 API WELL NO. _____
47 - 073 - 1524
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 737 WATER SHED HENRY CAMP
 DISTRICT JEFFERSON COUNTY PLEASANTS
 QUADRANGLE SCHULTZ 7 1/2
 SURFACE OWNER GLEN LOWTHER ACREAGE 26
 OIL & GAS ROYALTY OWNER GLEN LOWTHER ET AL LEASE ACREAGE 40
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 4000
 WELL OPERATOR ENERGEX OIL & GAS DESIGNATED AGENT WALTER H. ALLEN
 ADDRESS P.O. Box 5306 ADDRESS P.O. Box 5306
VIENNA, W. VA 26105 VIENNA, W. VA. 26105

PLEAS. 1524